

NOAA COMMISSIONED OFFICER BILLET DESCRIPTION**TO: DIRECTOR, COMMISSIONED PERSONNEL CENTER, CPC**FROM:
ROUTING CODE:
ADDRESS:THRU (Liaison Officer):
OAR Liaison OfficerBILLET TITLE: Physical Scientist/Pilot
BILLET #: 3500

PHONE NUMBER:

RANK REQUESTED: (O-2, O-3, O-4, etc.) O-3, O-4

GS/GM EQUIVALENT: _____

(This block to be completed by liaison officer)
IS THIS A NEW BILLET: ☐ YES ☐ NO
BILLET PRIORITY: ☐ A, ☐ B, ☐ C, ☐ R

IMMEDIATE SUPERVISOR:

Ray Hosker

TITLE:

Director, NOAA/ARL-ATDD

PHONE NUMBER:

EDUCATIONAL REQUIREMENTS:

This position requires a BS in atmospheric science, aeronautical engineering, mechanical engineering, or closely related field. An MS is preferred, but will accept 3-5 years experience in lieu of MS degree. Additional education or experience requirements include knowledge of meteorological instrumentation and their usage on research aircraft. Experience in data analysis from research aircraft is desirable.

OTHER QUALIFICATIONS (INCLUDE PARTICULAR SECURITY CLEARANCES, SKILLS, ETC...)

NOAA designated pilot, understanding of process required for airframe modification and the FAA certification process, knowledge and interest in operations of experimental, composite aircraft for research purposes. Contracting Officers Technical Representative (COTR) Level 1, experience in operating airborne data systems and computer programming advantageous, but not required.

1. GENERAL DESCRIPTION OF BILLET:

This Billet is located at the ARL Atmospheric Turbulence and Diffusion Division (ATDD) in Oak Ridge, TN. ATDD is the base for ARL's airborne research program. This program is in the process of acquiring a small research aircraft to carry out ARL's mission of investigating air-surface energy exchange and boundary layer turbulence and transport. The officer will serve ARL and ATDD as a research pilot and program specialist by working with ARL pilots and scientists to instrument and operate this aircraft for research. The officer will serve as the primary liaison between ARL and the AOC by providing guidance and oversight in the use of the aircraft and flight crews in accordance with the requirements established by the AOC Operations Manual. It is recommended that the officer pursue additional research opportunities related to the aircraft program, including meteorological instrumentation, data system development, or boundary layer research, for example.

2. DUTIES AND RESPONSIBILITIES:a. Is this a supervisory billet? ☐ YES ☒ NO

b. If so, state number and grade of personnel supervised. Number: _____

Grade(s): _____

In the initial phase (first 6-8 months) of the Billet, the officer will act as the contracting officers technical representative and oversee the construction of the aircraft. The officer will work with the contractor to ensure the aircraft meets the requirements of the contract and meets the safety standards of the AOC. During this time, the officer will also be responsible for drafting a specific AOC Flight Manual pursuant with AOC regulations and ARL's mission requirements.

After the initial phase, the officer will be responsible for: 1) the day-to-day operations of the aircraft, 2) assuring flight logs, maintenance logs, and monthly reporting requirements for the aircraft are complete and up-to-date, 3) safety concerns regarding the aircraft operations or modifications to the aircraft, 4) overseeing the piloting of the aircraft, 5) traveling with the aircraft and participating in field experiments, 6) working with other pilots/scientists to assure adequate staffing during field campaigns.

The officer will participate in research related to instrument or data system development/design and work with data collected from the aircraft either in an operational mode (data processing/quality control) or research mode.

3. CAREER DEVELOPMENT OPPORTUNITIES:

This billet provides ample opportunity for career development for a motivated officer. The success of ARL's research aircraft program in the past has been based on utilizing highly motivated scientists/engineers to operate every aspect of a small research aircraft program. With this billet, an officer has the opportunity to become involved in every aspect of the aircraft program, from development, to operations, and finally to research. The officer will work with state-of-the-art computers and instruments and will develop skills in learning to use these instruments.

This billet also provides the opportunity for an officer to pursue educational opportunities. ATTD is located near the campus of the University of Tennessee and ample opportunities exist to pursue graduate level courses which could result in a graduate degree. Numerous employees of ATTD have earned graduate degrees with their primary research being conducted at the laboratory.

4. ADDITIONAL COMMENTS:

During the final year of this assignment the incumbent will review and revise this billet description to remove the references to construction of the aircraft and recommend other changes as necessary to provide a updated depiction of the billet and the skills required to fill it.

SIGNATURE OF SUPERVISOR:

DATE: